

Sample Kit 2020

SMT Power Inductors

B82477D4*M900



SMT Power Inductors – Dual Inductor 12.5 x 12.5 x 8.5 (mm)

$L_{ind} \pm 20\%$	μH	4.7	10	15	22	47
I_R	A	5.24	4.54	3.7	3.11	2.4
$I_{sat. typ}$	A	10	6.5	5.5	4.5	3.3
$R_{DC. typ}$	$\text{m}\Omega$	23.2	35.5	47.5	67	109
K_{typ}	%	97	99	99	99	99
Ordering code	B82477	D4472M900	D4103M900	D4153M900	D4223M900	D4473M900

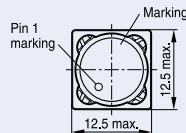
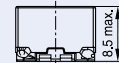
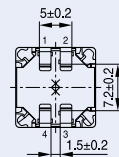
Features

- Special winding technology for tight coupling of the two windings (coupling factor $K = 97\%$ to 99%)
- Magnetically shielded
- Winding welded to terminals
- Base plate construction for high mechanical robustness
- Temperature range up to $+150\text{ }^\circ\text{C}$
- Qualification to AEC-Q200

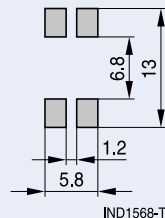
Applications

- DC/DC converter, especially for SEPIC topology
- Buck converter with auxiliary output
- Common mode choke
- 1:1 transformer

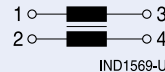
Inductance is per winding. When leads are connected in parallel, inductance is the same value. When leads are connected in series, inductance is four times the value. R_{DC} is for each winding. When leads are connected in parallel, $R_{DC} = R_1 \times R_2 / R_1 + R_2$. When leads are connected in series, R_{DC} is twice the value. I_{sat} is the current flowing through one winding. When leads are connected in parallel, I_{sat} is the same. When leads are connected in series, I_{sat} is half the value. I_R is the total current through both windings. I_1 and I_2 can be calculated like this: $I_1^2 + I_2^2 = I_R^2$



IND1631-K-E



IND1568-T

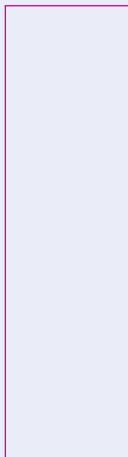


IND1569-U

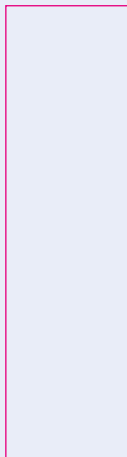
4.7 μH



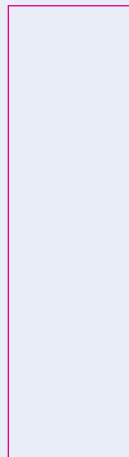
10.0 μH



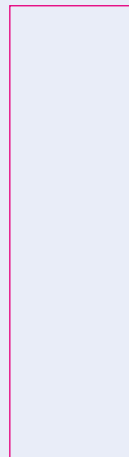
15.0 μH



22.0 μH



47.0 μH



Important information: It is incumbent on the customer to check and decide whether a product is suitable for use in a particular application. Our products are described in detail in our data sheets. Our *Important notes* and the product-specific *Cautions and warnings* must be observed. All relevant information is available through our sales offices.

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